

54080  
36584 23 -  
378 7576 X 100  
36504  
9126  
4563

**Education Department, Ontario.**

Annual Examinations, 1900.

**PART I. JUNIOR MATRICULATION.**

**ARITHMETIC.**

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9126

Examiners: { A. C. MCKAY, B.A.  
A. ODELL.  
W. PRENDERGAST, B.A.

1. Simplify  $\{(\cdot 05)^3 - (\cdot 02)^3\} \div \{(\cdot 05)^2 + (\cdot 05)(\cdot 02) + (\cdot 02)^2\}$ . 003
2. Reduce to its simplest form:—  
 $(3\frac{1}{2} + 5\frac{1}{2} - \frac{1}{25})(4\frac{1}{2} - 8\frac{1}{2})$  divided by  $1\frac{5}{11} + 2\frac{1}{3} - (2\frac{2}{16} - \frac{1}{8} - \frac{1}{24})$ . 4.8
3. A man owns  $\cdot 18$  of a certain mine. He sells  $\cdot 252$  of his share for \$5000. What is the value of the mine? 108900
4. A person sold to A  $\frac{1}{2}$  of his land; to B  $\frac{1}{3}$  of the remainder; to C  $\frac{1}{4}$  of what then remained and received \$55 for what he had left at \$75 an acre. Find the number of acres he had at first. 2523
5. A merchant buys goods amounting per catalogue price to \$540.80, subject to 25 % and 10 % off, and he sells at catalogue prices. Find the rate per cent. profit. 36.94
6. What per cent. is realised on money by investing in a  $3\frac{1}{2}$  per cent. stock at \$140, dividends payable yearly? 2.2
7. A young man deposits \$100 in a savings bank at the beginning of each year, making his first deposit on January 1st, 1895. How much will there be to his credit on December 31st, 1899, the bank paying 3 % per annum? 54680
8. \$500. Toronto, January 15th, 1899.  
Ninety days after date I promise to pay Henry Graham, or order, the sum of Five Hundred Dollars, with interest at six per cent. per annum. Value received. 50132

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4056

JOHN RYAN.  
This note was discounted on Feb. 20th, 1899, at 8 per cent.  
Find its cash value on that date.

[OVER.]

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148 700

9. I buy a house, agreeing to pay \$500 at the end of each year for 2 years. What would be the cash value equivalent to these two payments, money being worth 6 % per annum?

10. I invested \$9536 in Bank Stock at 74 $\frac{3}{8}$ , brokerage  $\frac{1}{8}$ , and sold at 80, brokerage  $\frac{1}{8}$ . What did I gain?

$$\begin{array}{r} 9536 \times 629 \times 2 \\ \hline 8 \quad 149 \end{array}$$